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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/978,217	11/25/1997	CHRISTOPHER C. BENZ	02307E-07111	4060
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LAW OFFICE	ES OF JONATHAN	HOLLERAN	HOLLERAN, ANNE L	
P.O. BOX 458				
ALAMEDA, CA 94501			ART UNIT	PAPER NUMBER
			1642	

DATE MAILED: 03/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	08/978,217	BENZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anne Holleran	1642				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a replept within the statutory minimum of thirty (and the statutory minimum of thirty (and the statutory minimum of thirty (build apply and will expire SIX (6) MONTHE, cause the application to become ABANE.	ly be timely filed 30) days will be considered timely. 15 from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
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, -	, -					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-4,6-13,16-18,21-26,71,79 and 82-4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 88 and 89 is/are allowed. 6) ☐ Claim(s) 1-4,6-13,16-18,21-26,71,79 and 82-7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration. 87 is/are rejected.	cation.				
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by e drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Appority documents have been re au (PCT Rule 17.2(a)).	plication No eceived in this National Stage				
Attachment/a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Sui	mmary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paner No(s)/Mail Date	Paper No(s)/	Mail Date brmal Patent Application (PTO-152)				

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DETAILED ACTION

1. The amendment filed 11/24/2003 is acknowledged. Claims 1 and 16 were amended.

2. Claims 1-4, 6-13, 16-18, 21-26, 71, 79, and 82-89 are pending and examined on the

merits.

3. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

Claim Rejections Maintained and New Grounds of Rejection:

4. The rejection of claims 1-4, 6-9, 16-19 and 21-26 rejected under 35 U.S.C. 112, second

paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject

matter which applicant regards as the invention is maintained, and applied to claim 79.

Although the amendment to claims 1 and 16 appears to provide specific hybridization

conditions, it is not clear that the recited conditions refer to the conditions under which

hybridization occurs or whether the recited conditions refer to the conditions of the wash step. A

review of the specification to find support for the amendment to claims 1 and 16 shows that the

recitation "comprising 65°C in 0.2 x SSC" is only used in reference to the wash conditions of a

Northern hybridization procedure (page 74, lines 1-7). This rejection would be obviated if the

claims were to be amended to recite "stringent hybridization conditions comprising washes at

65°C in 0.2 x SSC".

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5. Claims 1, 4, 6-13, 16, 21-26, 71, 79, and 82-85 under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention is maintained.

To provide adequate written description and evidence of possession of a claimed genus, the specification must provide sufficient distinguishing identifying characteristics of the genus. The factors to be considered include disclosure of complete or partial structure, physical and/or chemical properties, functional characteristics, structure/function correlation, methods of making the claimed product, or any combination thereof. In this case, the only factor present in the claim is a partial structure in the form of a recitation that the nucleic acid must hybridize under undefined conditions to a target nucleic acid. There is not even identification of any particular portion of the structure that must be conserved. Accordingly, in the absence of sufficient recitation of distinguishing identifying characteristics, the specification does not provide adequate written description of the claimed genus.

The rejections are maintained for the reasons of record. Applicant's arguments are unpersuasive because applicant fails to establish that the proposed functional limitation "encoding a transcription factor" limits the breadth of the claimed genera to inventions for which the disclosure of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 15, and SEQ ID NO: 16 are representative embodiments. The specification fails to provide a definition of the term "transcription factor", and defines the term "ESX transcription factors" as including non-functional variants. Therefore, the term "transcription factor" does not provide a functional limitation for the claimed inventions. Transcription factors encompass a broad range of

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structurally and functionally different compounds. For example, Lodish (Molecular Cell Biology, Ed. H. Lodish et al., Scientific American Books, New York, 1995; pages 442) teaches that eukaryotic transcription factors may either stimulate or repress transcription. Lodish also teaches (pages 445-453) that transcription factors as a group comprise a variety of protein structures (homeodomain proteins, zinc-finger proteins, winged-helix proteins, to name some examples) in both the DNA binding domains and in the activation domains. Furthermore, the specification appears to include non-functional and mutated forms of ESX transcription factors as examples of ESX transcription factors that are encompassed by the term "ESX transcription factor" (see pages 15-16).

Was-Cath Inc. v. Mahurkar, 19USPQ2d 1111, clearly states "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116). The claims encompass nucleic acids that encode mutated variants, non-functional forms and splice-variants of the polypeptide that consists of the amino acid sequence of SEQ ID NO: 2, for which not one example has been provided in the specification, and for which the sequences of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 15, and SEQ ID NO: 16 are not representative embodiments. The skilled artisan cannot envision the detailed chemical structure of the encompassed genus of polypeptides, given that the specification has only described SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 15, and SEQ ID NO: 16. Therefore, a significant portion of the claimed genus has not been described, and one of skill in the art would not find that

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applicant was in possession at the time of filing of claims to full genus of nucleic acids encompassed by either claim 1 or 16. Applicant is reminded that Vas-Cath makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

This rejection would be obviated for claim 1 (and its dependent claims) if claim 1 were amended as directed in #4 above, *and* if "transcription factor" was replaced with the phrase "transcription factor that binds to and transactivates the Her-2/neu Ets response element". The specification does not appear to provide teachings that the murine sequence of claim 16 binds to and transactivates the Her-2/neu Ets response element.

6. The rejection of claims 1, 2, 6-13, 21-26, 79, and 82-87 under 35 U.S.C. 102(e) as being anticipated by Kola et al, (U.S. Patent 5,789,200; issue Aug. 4, 1998; effective filing date Oct. 31, 1996) is maintained for the reasons of record, and applied to claim 16.

Claim 16 is rejected (as were previously rejected claims 21-26, which depend from claim 16) because it is broadly interpreted to read on nucleic acids that comprise encode fragments of a transcription factor having the amino acid sequence consisting of the amino acid sequence of SEO ID NO: 2, which is the same sequence as the polypeptide of Kola.

Applicant presents no specific arguments why this rejection should be withdrawn.

Applicant's comments with regard to providing a declaration under 37 C.F.R. 1.131 are noted.

However, applicant's attention is drawn to MPEP 2308.01 that instructs applicant to file a statement under 37 C.F.R. 1.608(a) or 37 C.F.R. 1.608(b) when a patent claims the same invention as what is claimed in an application to another. See also MPEP 2138.03: Interference

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practice operates to the exclusion of ex parte practice under 37 CFR 1.131 which permits an applicant to show an actual date of invention prior to the effective date of a patent or literature reference applied under 35 U.S.C. 102(a) or (e), as long as the patent is not a domestic patent claiming the same patentable invention. Ex parte Standish, 10 USPQ2d 1454, 1457 (Bd. Pat. App. & Inter. 1988) (An application claim to the "same patentable invention" claimed in a domestic patent requires interference rather than an affidavit under 37 CFR 1.131 to antedate the patent. The term "same patentable invention" encompasses a claim that is either anticipated by or obvious in view of the subject matter recited in the patent claim.). Subject matter which is available as prior art only under 35 U.S.C. 102(g) is by definition made before the applicant made his invention and is therefore not open to further inquiry under 37 CFR 1.131.

Claims 1 and 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply 7. with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The basis for this rejection is that the amendment adding the recitation "comprising 65°C in 0.2 x SSC" to claims 1 and 16 introduces new matter into the specification.

As a preliminary matter, it is noted that applicants failed to indicate where in the specification specific support for the amendment to claims 1 and 16 may be found.

A review of the specification to find support for the amendment to claims 1 and 16 shows that the recitation "comprising 65°C in 0.2 x SSC" is only used in reference to the wash conditions of a Northern hybridization procedure (page 74, lines 1-7). The teachings in the

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specification concerning the hybridization conditions are set forth on pages 13-14, and indicate

that stringent conditions are defined in terms of ionic strength, temperature and pH and in terms

of the length of the probe. No where in the teachings of pages 13-14 does the specification set

forth that a stringent conditions may be specifically defined by the recitation "comprising 65°C"

in 0.2 x SSC". Therefore, it appears that the amendment to claims 1 and 16 constitutes new

matter, and one of skill in the art would not conclude that applicant was in possession of the

claimed invention at the time of filing.

Conclusion

Claims 88 and 89 are allowable. Claims 1-4, 6-13, 16-18, 21-26, 71, 79, and 82-87 are

rejected.

Any inquiry concerning this communication or earlier communications from the Office should be directed to Anne Holleran, Ph.D. whose telephone number is (571) 272-0833.

Examiner Holleran can normally be reached Monday through Friday, 9:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, Ph.D. can be reached at (571) 272-0871.

Anne L. Holleran Patent Examiner March 5, 2004

GAHY KUNZ SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600

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